

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/728,685	12/05/2003	Christopher W. Dix	M-15299 US	9055	
7:	7590 02/07/2006		EXAMINER		
Greg J. Michelson			NGUYEN, MATTHEW VAN		
MacPHERSON	KWOK CHEN & HEID	LLP			
1762 Technolog	gy Drive, Suite 226		ART UNIT	PAPER NUMBER	
San Jose, CA	-		2838		

DATE MAILED: 02/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<u> </u>
	10/728,685	DIX, CHRISTOPHER	₹ W.
Office Action Summary	Examiner	Art Unit	
	MATTHEW V. NGUYEN	2838	
The MAILING DATE of this communication ap			ess
eriod for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a repl d will apply and will expire SIX (6) MONTH te, cause the application to become ABAN	ATION. y be timely filed IS from the mailing date of this comm NDONED (35 U.S.C. § 133).	
tatus			
1) Responsive to communication(s) filed on 22.	November 2005		
	is action is non-final.		
3)☐ Since this application is in condition for allows		s, prosecution as to the m	nerits is
closed in accordance with the practice under	·	••	
isposition of Claims	•		
	n		
4) Claim(s) 1-24 is/are pending in the application			
4a) Of the above claim(s) <u>16-24</u> is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
pplication Papers			
9)☐ The specification is objected to by the Examin	ner.		
10)⊠ The drawing(s) filed on 23 February 2004 is/a	re: a)⊠ accepted or b)□ ob	jected to by the Examiner	•.
Applicant may not request that any objection to the	e drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s)	is objected to. See 37 CFR	1.121(d)
11) The oath or declaration is objected to by the E	Examiner. Note the attached (Office Action or form PTO-	-152.
riority under 35 U.S.C. § 119			
<u> </u>	n priority under 35 U.S.C. S.4	19(a)-(d) or (f)	
12) Acknowledgment is made of a claim for foreig	in priority under 35 U.S.C. § 1	19(a)-(u) Or (1).	
a) All b) Some * c) None of:	ata baya basa sasasing d		
1. Certified copies of the priority documen		Bankan Mi	
2. Certified copies of the priority documer	, ,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	
3. Copies of the certified copies of the price		eceived in this National Sta	age
application from the International Burea	• • • • • • • • • • • • • • • • • • • •		
* See the attached detailed Office action for a lis	t of the certified copies not re	ceived.	
ttachment(s)			
Notice of References Cited (PTO-892)		nmary (PTO-413) Mail Date	
)		rmal Patent Application (PTO-15	52)
Paper No(s)/Mail Date <u>12/5/03</u> .	6) Other:		
Patent and Trademark Office OL-326 (Rev. 7-05) Office A	Action Summary	Part of Paper No./Mail Date	2006020
Office A	notion Summary	rait of Paper No./Iviali Date	20000207

Application/Control Number: 10/728,685

Art Unit: 2838

- 1. Applicant's election of Group I, claims 1-14, in the reply filed on 11/22/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. The disclosure should be carefully reviewed and ensure that any and all grammatical, idiomatic, and spelling or other minor errors are corrected.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 6, 7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Plankensteiner et al. (U.S. Pat. No. 6,479,975).

With regard to claims 1, 2, 6, 7 and 9, Plankensteiner et al. (i.e., Fig. 4) shows an electronic circuit comprising a first transistor (M_{OUT}) connecting an output terminal of the power supply to a load (R_{LOAD}), a second transistor (M_{SENSE}) connecting a sense terminal of the power supply to the load, a controller (CONTROL) providing an output signal (312) for controlling the first and second transistors, switching them on to apply power from the power supply to the load and sensing the load to the power supply at about the same time, the first and second transistors being MOSFETs, and the load and power supply being part of the circuit.

Page 3

Application/Control Number: 10/728,685

Art Unit: 2838

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 8 and 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plankensteiner et al. in view of Terrien (U.S. Pat. No. 6,693,410).

With regard to claims 3, 8 and 10-13, Plankensteiner et al. shows an electronic circuit comprising all the claimed subject matter as discussed in subparagraph 3 above, except for the controller varying the ramp rate of the output signal, and first and second resistors being arranged between control terminals of the first and second transistors, respectively, and the controller.

Terrien (i.e., 1) discloses a controlling circuit in which the ramp rate is varying (col. 3, line 45-60), and every transistor in the circuit being connected to a resistor at its control terminal.

It would have been obvious to one having ordinary skill in the art at time the invention was made to utilize the controller varying the ramp rate of the output signal, and a resistor connected at the control terminal of each transistor in the circuit of Terrien into that of Plankensteiner et al. for the purpose of obtaining a better and more stable control signal to the switching transistors.

5. Claims 4, 5, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plankensteiner et al.

Page 4

Application/Control Number: 10/728,685

Art Unit: 2838

With regard to claims 4, 5, 14 and 15, Plankensteiner et al. shows an electronic circuit comprising all the claimed subject matter as discussed in subparagraph 3 above, except for third and fourth transistors connected respectively to the output terminal and the sense terminal of a second power supply to a second load and a controller for providing control signal to the third and fourth resistors.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have third and fourth transistors connected respectively to the output terminal and the sense terminal of a second power supply to a second load and a controller for providing control signal to the third and fourth resistors into the circuit of Plankensteiner et al., since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kalpakjian et al. (U.S. Pat. No. 6,175,221), Nishimaki (U.S. Pat. No. 6,870,354), Yoshida et al. (U.S. Pat. No. 6,879,502) also disclose electronic circuits each of which comprises substantial elements as recited in claims of the instant application.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew V. Nguyen whose telephone number is (571) 272-2081.

Application/Control Number: 10/728,685

Art Unit: 2838

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2800.

MATTHEW V. NGUYEN
PRIMARY EXAMINER

Page 5